



O I P E

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,633

DATE: 01/19/2002
TIME: 11:58:24

Input Set : A:\DKGR-SEQS.ST25.txt
Output Set: N:\CRF3\01182002\J037633.raw

ENTERED

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75	cggcacgacg	gtgacgaacc	ggctgctgt	atcgctaat	ctctggctaa	actggatctg	300
77	gatcagggtt	acctgtaccc	ggttcaactgg	ccgacccccc	ctgctgacaa	ctacgttcac	360
79	gcttggaaa	aatatgatega	actgegtgt	gctgggtctga	ccgggttat	cggtgtttct	420
81	aaccacctgg	ttecgaccc	ggaaacgtata	gttgcgtcta	ccgggttgtt	tcggctgttt	480
83	aaccagatcg	aactgcaccc	ggcttaccag	cagegtgaaa	tcaccgactg	ggctgtgtct	540
85	cacgacgtta	aatatgaaatc	ttggggtccg	ctgggtcagg	gtaaatacga	cctgttcgg	600
87	gctgaacccgg	taacccgtqc	tgtgtgtgt	cacggtaaaa	ccccggctca	ggctgtttctg	660
89	cgttgcacc	tgcagaaaagg	tttgcgtgtt	ttcccgaaaat	ctgttcgtcg	tgaacgtctg	720
91	qaagaaaacc	tggacgtttt	cgacttcgac	ctgaccgaca	ccgaaatcgc	tgtatcgac	780
93	gtatggatc	cgggggacgg	ttctgggtgt	gttttgcgtc	acccggacga	atgtgactga	840
95	agttt						845
98	<210>	SEQ ID NO:	3				
99	<211>	LENGTH:	843				
100	<212>	TYPE:	DNA				
101	<213>	ORGANISM:	Corynebacterium species				
103	<220>	FEATURE:					
104	<221>	NAME/KEY:	misc_feature				
105	<223>	OTHER INFORMATION:	"n" positions at both ends of sequence represent restriction endo				
106		nuclease recognition sites;	"n" positions at residues 49-51, and				
107		55-57 represent areas of disagreement in the published sequence f					
108		or wild type DKGE-B between Sonoyama and Powers, however, both pu					
W--> 109		blished sequences encode the same amino acid					
112	<400>	SEQUENCE:	3				
W--> 113	nnnatgccga	acatccccac	catcagcctc	aacgacggac	gccccttcnn	ngagnnnnn	60
115	ctcgccaaat	acaacatgtc	ggggcgtacgg	ggggjtgcgg	ccatggtcgc	cgccatcgac	120
117	tcgggttacc	gtctgttcga	caegggcggt	aactacgaga	acgagagcga	ggtcggccga	180
119	gcgggtgcgcg	cgccatcggt	cgatcgccac	gatcgatcg	ttggcgagca	gtatccgggc	240
121	cggccagcgg	ggccgcggcg	gggggtcgac	agccatcgcc	gatcgatcg	ccgatgggg	300
123	ctcgacgttg	tcgactgtca	gtcgatccac	ttggcgaaacc	ccatcgatgg	ccgggtggctc	360
125	qacacccgtgc	cgccatcgat	cgccatcgcc	ggggggggcc	ttggtcgttc	gatcgccgtc	420
127	tcqaaacttc	cccgatcgat	gtcgatccac	ctccatcgac	agacccgggt	cacaccccg	480
129	qtcacccagg	tcqaaatcca	cccgatcgat	ccccatcgcc	ccatcgatcg	gttccacgac	540
131	qacgacggca	tcqacccagg	gatcgatgg	ccatcgatcg	ggccatcgcc	gtcgatccac	600
133	qacgacgtgc	tcqacccagg	ggccatcgat	ttggcgatgt	ccatcgatcg	ggccatcgcc	660
135	ccggatggcc	tcqacccagg	ccatcgatcg	atcccaatgt	ccatcgatcg	ccatcgatcg	720
137	ccggatggcc	ccatcgatcg	ccatcgatcg	ccatcgatcg	ccatcgatcg	ccatcgatcg	780
W--> 139	ggccctcgagc	ggggggggct	ctgggacggc	gaccccgaca	cgcacgaaaga	gatgtagnnn	840
W--> 141	nnn						843
144	<210>	SEQ ID NO:	4				
145	<211>	LENGTH:	843				
146	<212>	TYPE:	DNA				
147	<213>	ORGANISM:	Corynebacterium species				
149	<400>	SEQUENCE:	4				
150	ccatatcccgaa	acatcccgac	catcttcgt	aacgacggtc	gtccgttcac	ggaaactgggt	60
152	ctgggttacc	acaacatgtc	ggggatggat	gggtttgtgt	ctatgttttc	tgtatcgac	120
154	tcgggttacc	gtcgatccac	cccgatcgat	aactacgaaa	acgaaatcg	atgttggatgt	180
156	gtcgatccac	tttccatcgat	ttggcgatgt	ttggcgatgt	ttggcgatgt	ttggcgatgt	240
158	cttcacggcc	gtcgatccac	atcccaatgt	ccatcgatcg	ccatcgatcg	ccatcgatcg	300
160	ctggacgttta	tcgatccatcg	gtcgatccac	ccatcgatcg	ccatcgatcg	ccatcgatcg	360

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162	gacacctggc	gtggtatgtat	cgacgctcgtaa	gaagctggtc	tggttcggttgc	420
164	tctaaactca	ccgaaaccat	gtgtaaaacc	ctgatcgacgaa	accgggtgttacccggct	480
166	tttaccagg	ttgaaactgca	cccgtaacttc	ccggaggctgc	ctctgttgttgc	540
168	aaacacggta	tccgttccga	atcttgggtct	ccgtggctc	gtcgttctgatctgtgacc	600
170	aaacagctgc	tgcaggaaact	ggctgttgtt	tacgttgttacccgaccca	ggttgttgtgc	660
172	cgttggcag	ttagctgggg	ttcttacccgat	cccgaaat	ctgtgtacccggacc	720
174	cgtaaaaacg	cagacgtttt	cgttttcgtct	ctgaccgtgc	accagggttgacgtatctct	780
176	gttctggaaac	gtggtctgtct	gtggggacgg	gaccggaca	cccacgaaga	840
178	ctt					843
181	<210>	SEQ ID NO:	5			
182	<211>	LENGTH:	277			
183	<212>	TYPE:	PRT			
184	<213>	ORGANISM:	Corynebacterium species			
186	<400>	SEQUENCE:	5			
188	Met Thr Val Pro Ser Ile Val Leu Asn Asp Gly Asn Ser Ile Pro Gln					
189	1	5	10	15		
191	Leu Gly Tyr Gly Val Phe Lys Val Pro Pro Ala Asp Thr Gln Arg Ala					
192	20	25	30			
194	Val Glu Glu Ala Leu Glu Val Gly Tyr Arg His Ile Asp Thr Ala Ala					
195	35	40	45			
197	Ile Tyr Gly Asp Glu Glu Gly Val Gly Ala Ala Ile Ala Ala Ser Gly					
198	50	55	60			
200	Ile Ala Arg Asp Asp Leu Phe Ile Thr Thr Lys Leu Trp Asn Asp Arg					
201	65	70	75	80		
203	His Asp Gly Asp Glu Pro Ala Ala Ala Ile Ala Glu Ser Leu Ala Lys					
204	85	90	95			
206	Leu Ala Leu Asp Gln Val Asp Leu Tyr Leu Val His Trp Pro Thr Pro					
207	100	105	110			
209	Ala Ala Asp Asn Tyr Val His Ala Trp Glu Lys Met Ile Glu Leu Arg					
210	115	120	125			
212	Ala Ala Gly Leu Thr Arg Ser Ile Gly Val Ser Asn His Leu Val Pro					
213	130	135	140			
215	His Leu Glu Arg Ile Val Ala Ala Thr Gly Val Val Pro Ala Val Asn					
216	145	150	155	160		
218	Gln Glu Leu His Pro Ala Tyr Gln Gln Arg Glu Ile Thr Asp Trp Ala					
219	165	170	175			
221	Ala Ala His Asp Val Lys Ile Glu Ser Trp Gly Pro Leu Gly Gln Gly					
222	180	185	190			
224	Lys Ile Asp Val Ile Gly Ala Gln Pro Val Ile Ala Ala Ala Ala					
225	195	200	205			
227	Ile Asp Val Val Phe Pro Lys Ser Val Arg Arg Glu Arg Leu Gln Gln					
228	210	215	220			
231	Asp Leu Asp Val Phe Asp Phe Asp Leu Thr Asp Thr Glu Ile Ala Ala					
232	225	230	235	240		
234	Asp Asp Val Phe Asp Asp Leu Thr Asp Thr Glu Ile Ala Ala					
235	245	250	255			
237	Ile Asp Ala Met Asp Pro Gly Asp Gly Ser Gly Arg Val Ser Ala His					
238	260	265	270			
239	Pro Asp Glu Val Asp					

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240 275
 242 <210> SEQ ID NO: 6
 243 <211> LENGTH: 277
 244 <212> TYPE: PRT
 245 <213> ORGANISM: Corynebacterium species
 247 <400> SEQUENCE: 6
 249 Met Pro Asn Ile Pro Thr Ile Ser Leu Asn Asp Gly Arg Pro Phe Pro
 250 1 5 10 15
 252 Glu Leu Gly Leu Gly Thr Tyr Asn Leu Arg Gly Asp Glu Gly Val Ala
 253 20 25 30
 255 Ala Met Val Ala Ala Ile Asp Ser Gly Tyr Arg Leu Leu Asp Thr Ala
 256 35 40 45
 258 Val Asn Tyr Glu Asn Glu Ser Glu Val Gly Arg Ala Val Arg Ala Ser
 259 50 55 60
 261 Ser Val Asp Arg Asp Glu Leu Ile Val Ala Ser Lys Ile Pro Gly Arg
 262 65 70 75 80
 264 Gln His Gly Arg Ala Glu Ala Val Asp Ser Ile Arg Gly Ser Leu Asp
 265 85 90 95
 267 Arg Leu Gly Leu Asp Val Ile Asp Leu Gln Leu Ile His Trp Pro Asn
 268 100 105 110
 270 Pro Ser Val Gly Arg Trp Leu Asp Thr Trp Arg Gly Met Ile Asp Ala
 271 115 120 125
 273 Arg Glu Ala Gly Leu Val Arg Ser Ile Gly Val Ser Asn Phe Thr Glu
 274 130 135 140
 276 Pro Met Leu Lys Thr Leu Ile Asp Glu Thr Gly Val Thr Pro Ala Val
 277 145 150 155 160
 279 Asn Gln Val Glu Leu His Pro Tyr Phe Pro Gln Ala Ala Leu Arg Ala
 280 165 170 175
 282 Phe His Asp Glu His Gly Ile Arg Thr Glu Ser Trp Ser Pro Leu Ala
 283 180 185 190
 285 Arg Arg Ser Glu Leu Leu Thr Glu Gln Leu Leu Gln Glu Leu Ala Val
 286 195 200 205
 288 Val Tyr Gly Val Thr Pro Thr Gln Val Val Leu Arg Trp His Val Gln
 289 210 215 220
 291 Leu Gly Ser Thr Pro Ile Pro Lys Ser Ala Asp Pro Asp Arg Gln Arg
 292 225 230 235 240
 294 Glu Asn Ala Asp Val Phe Gly Phe Ala Leu Thr Ala Asp Gln Val Asp
 295 245 250 255
 297 Ala Ile Ser Gln Ile Glu Arg Gln Asp Leu Trp Asp Gly Asp Pro Asp
 298 260 265 270
 301 275

VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:30 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:58 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:109 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:113 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:139 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:141 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3